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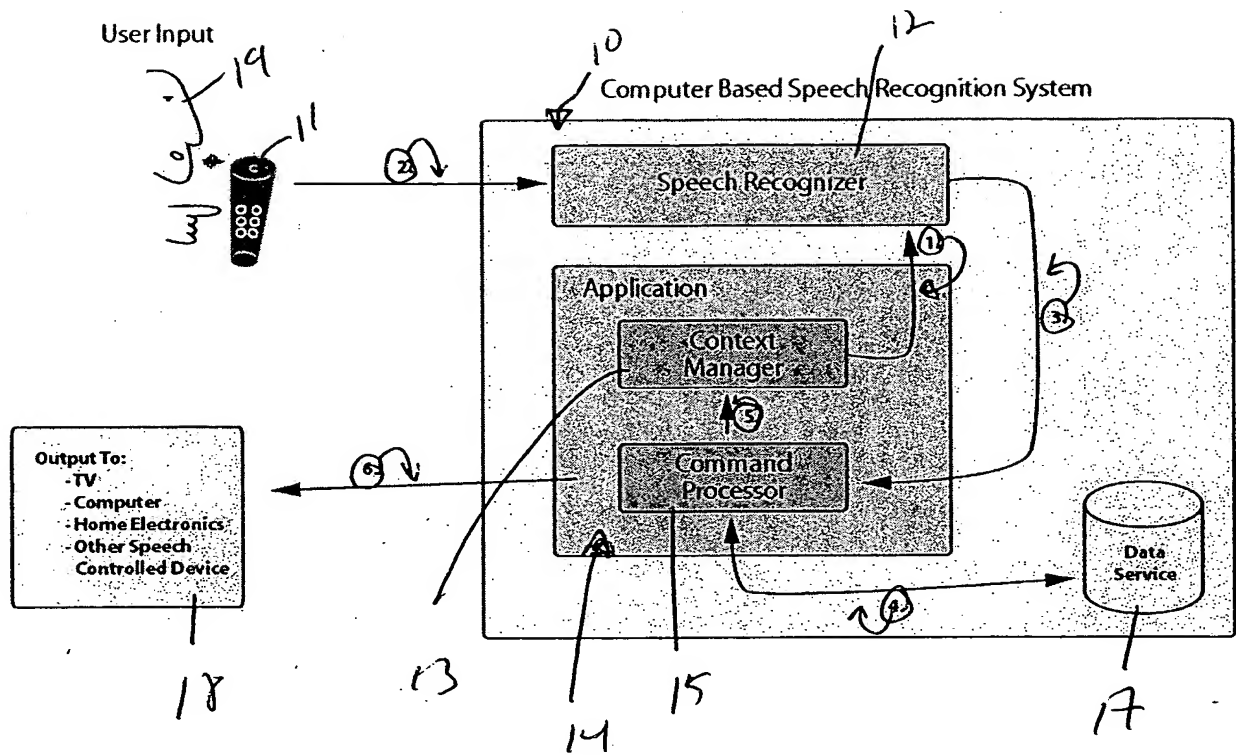


Fig. 1

Top-Level Grammar

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Utterance	Attribute	Linked Grammar
"Set"	Chained Command	Set Grammar
"Find"	Chained Command	Find Grammar
etc.	etc.	etc.
etc.	etc.	etc.

22 "Set" Grammar

Utterance	Attribute	Linked Grammar
"Options"	Chained Command	Options Grammar
"Preferences"	Chained Command	Preferences Grammar
etc.	etc.	etc.
etc.	etc.	etc.

24 "Options" Grammar

Utterance	Attribute	Linked Grammar
"Favorite"	Chained Command	Favorite Grammar
"Blocks"	Chained Command	Blocks Grammar
etc.	etc.	etc.
etc.	etc.	etc.

26 "Favorites" Grammar

Utterance	Attribute	Linked Grammar
"Channel 2"	Channel Type	None
"Category"	Chained Command	Category Grammar
etc.	etc.	etc.
etc.	etc.	etc.

28 "Category" Grammar

Utterance	Attribute	Linked Grammar
"Sports"	Category Type	None
"Movies"	Category Type	None
etc.	etc.	etc.
etc.	etc.	etc.

Fig. 2

Program Information Grammar

Utterance	Attribute	Linked Grammar
"Robert Redford"	Actor Type	Robert Redford
	Chained Command	Programs Grammar
etc.	etc.	etc.
etc.	etc.	

32 Robert Redford Programs Grammar

Utterance	Attribute	Linked Grammar
"Butch Cassidy"	Program Type	None
"Three Days of The Condor"	Program Type	None
etc.	etc.	etc.
etc.		etc.

Fig. 3

Program Information Grammar - 30

Utterance	Attribute	Linked Grammar
"Robert Redford"	ActorType	None
etc.	etc.	etc.

Fig. 4

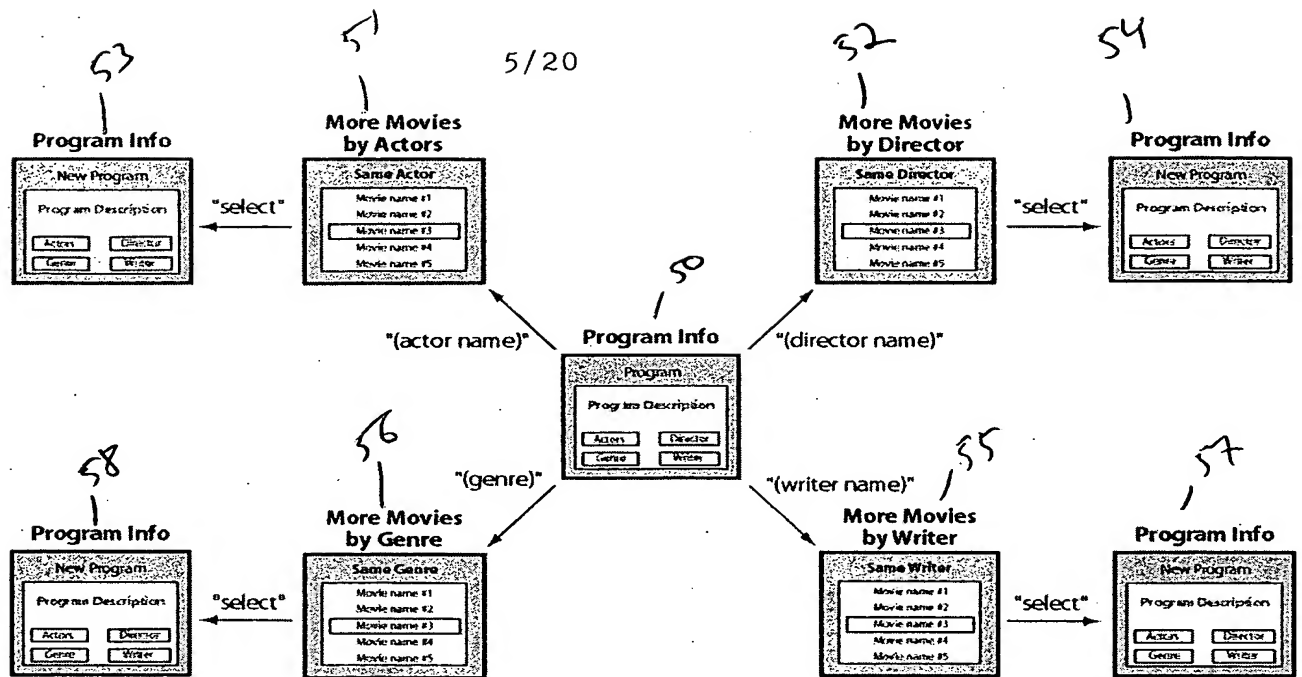


Fig. 5

Fig. 6

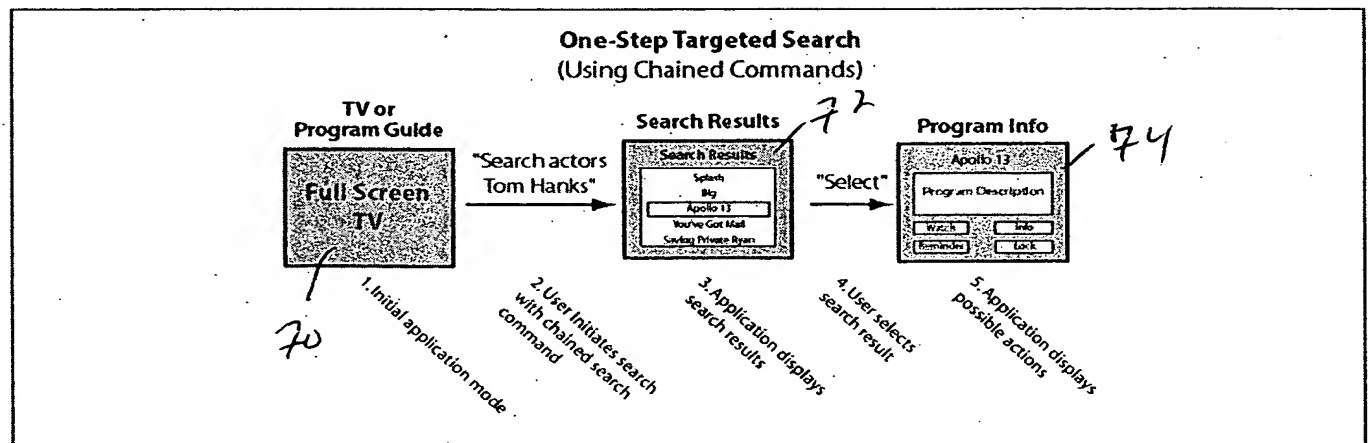
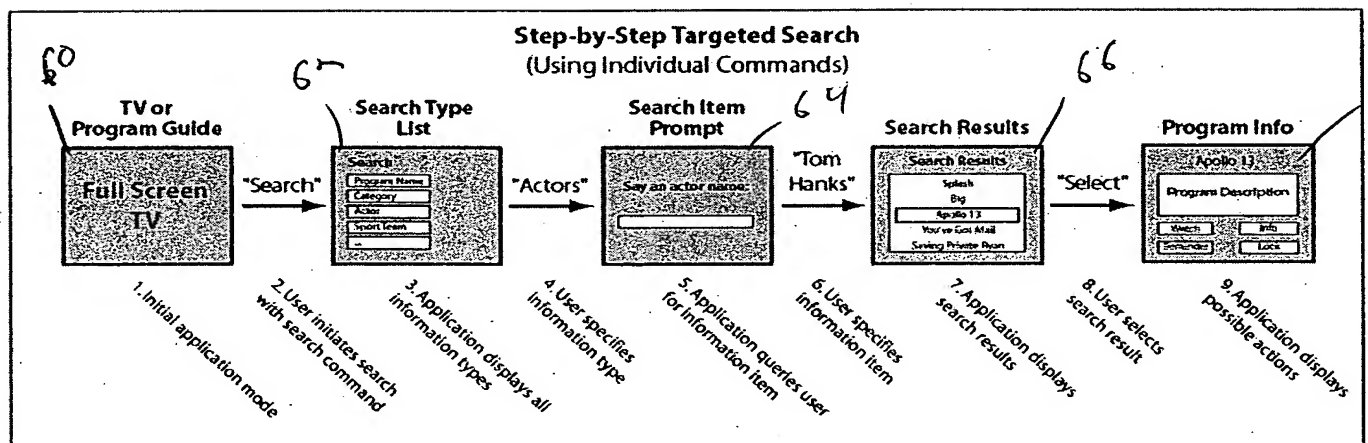


Fig. 7

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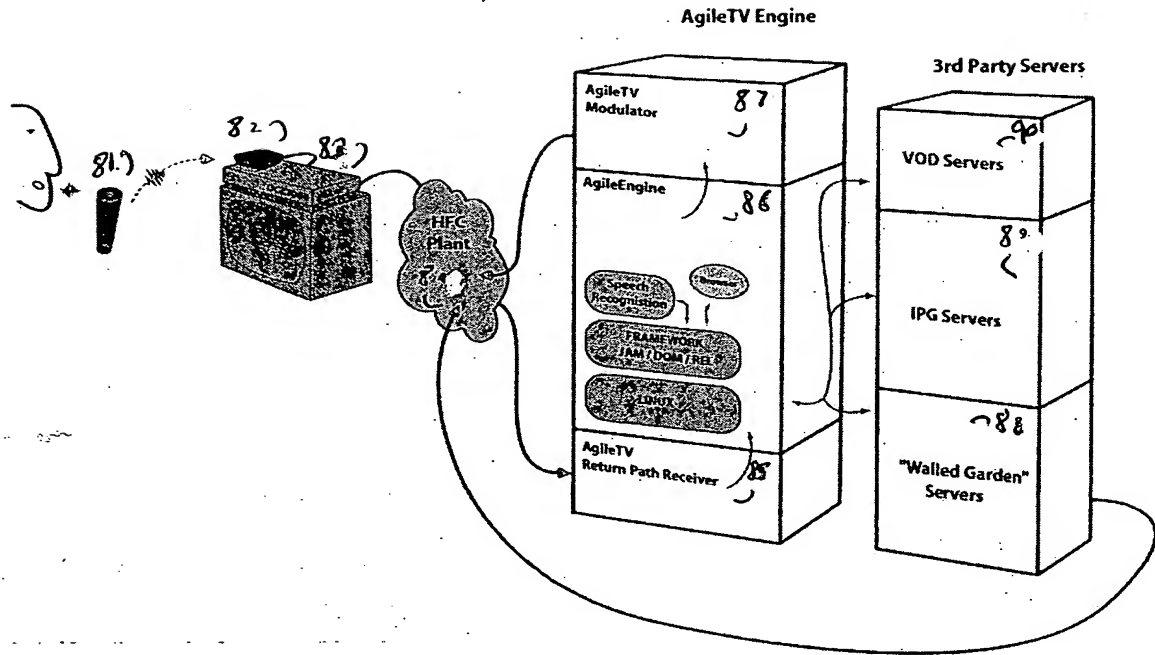


Fig. 8

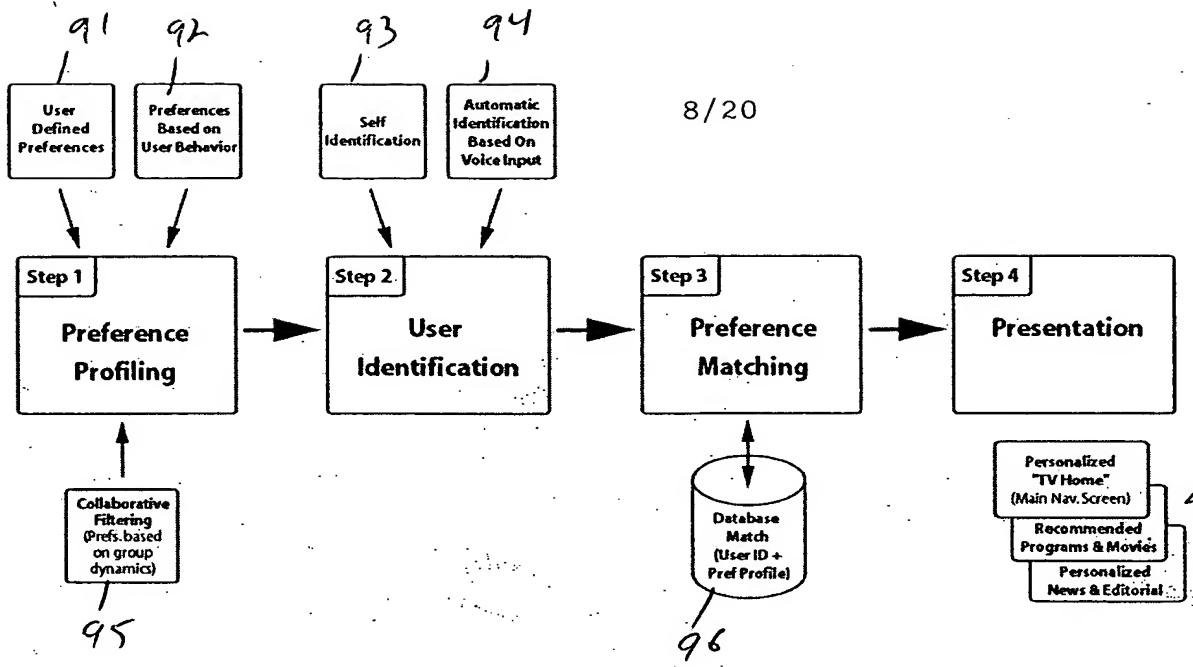


Fig 9

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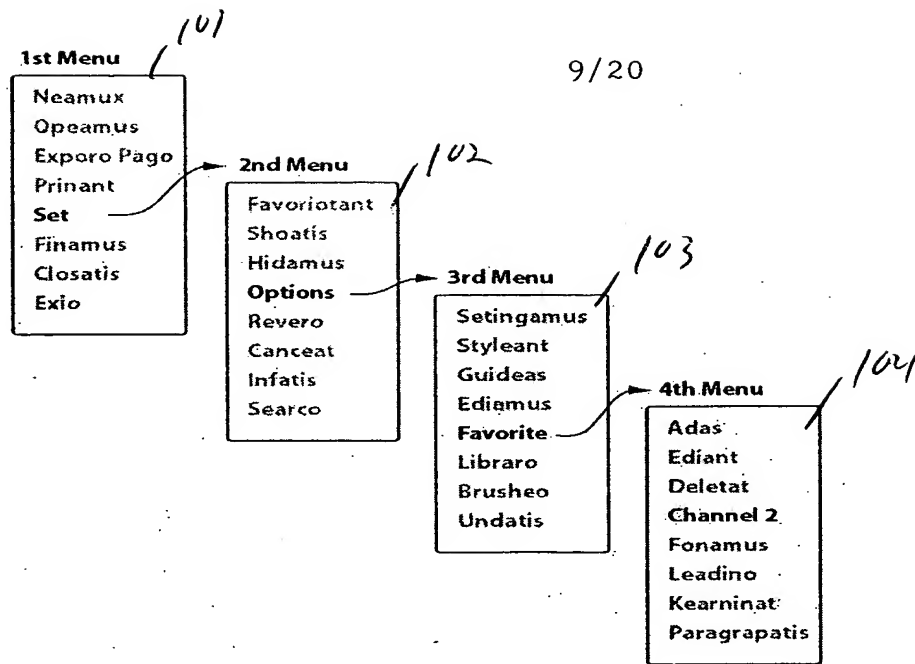


Fig 10 (PRIOR ART)

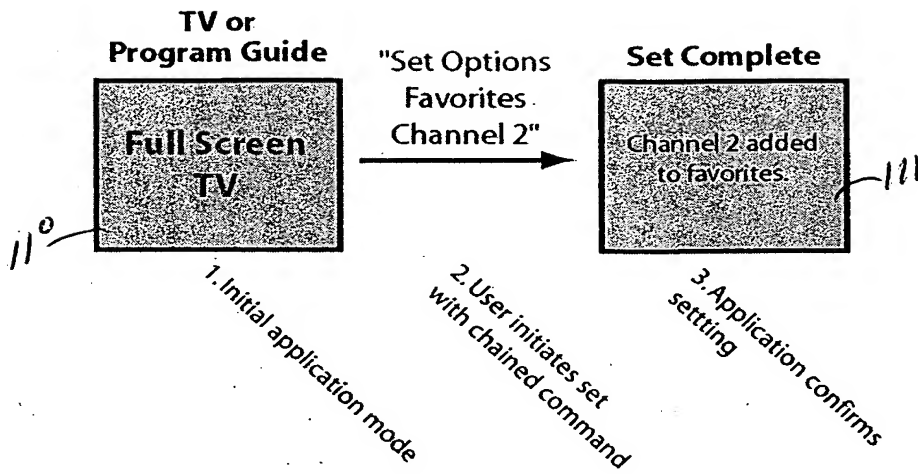


Fig 11

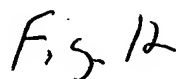
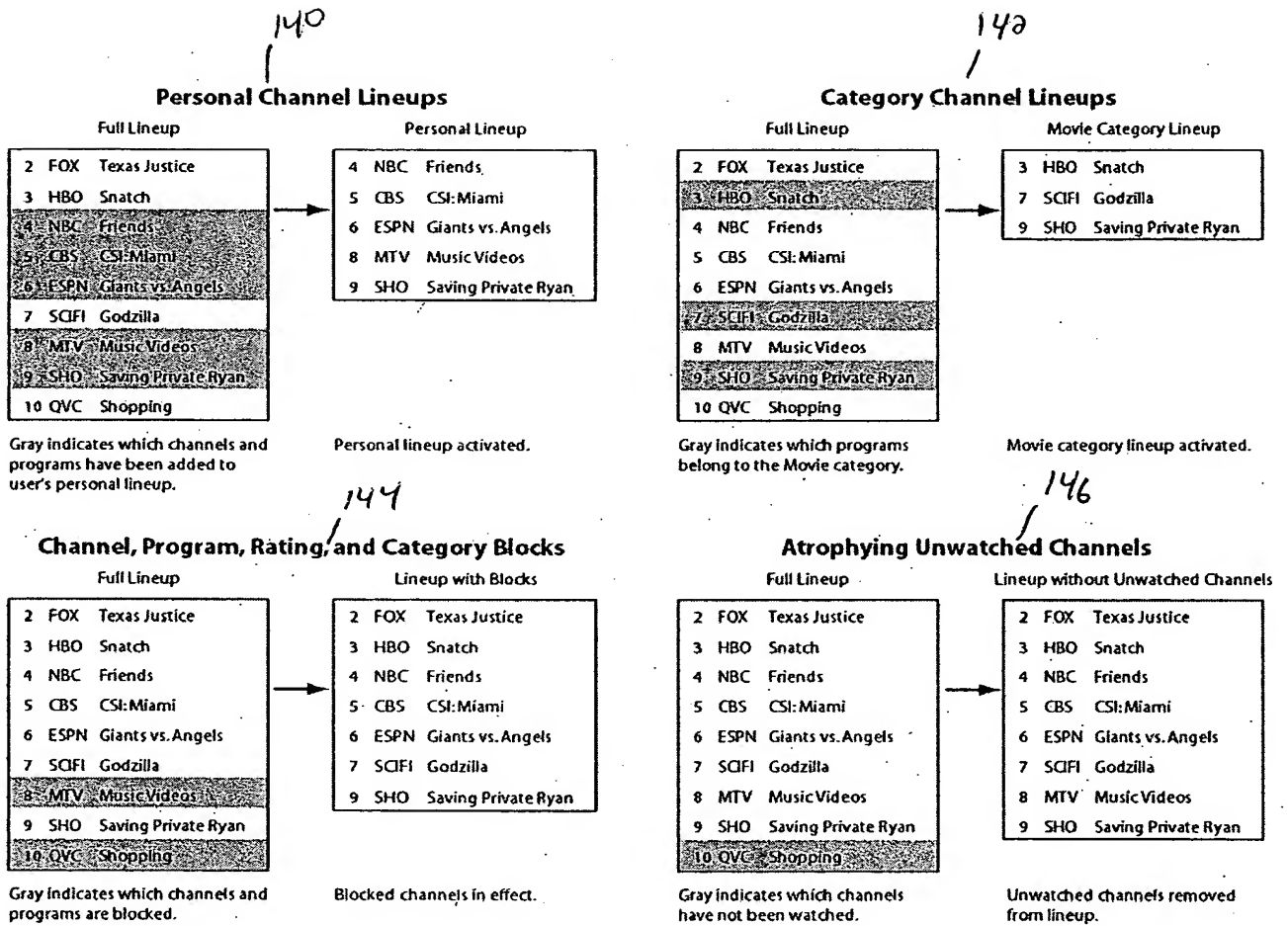


Fig 12

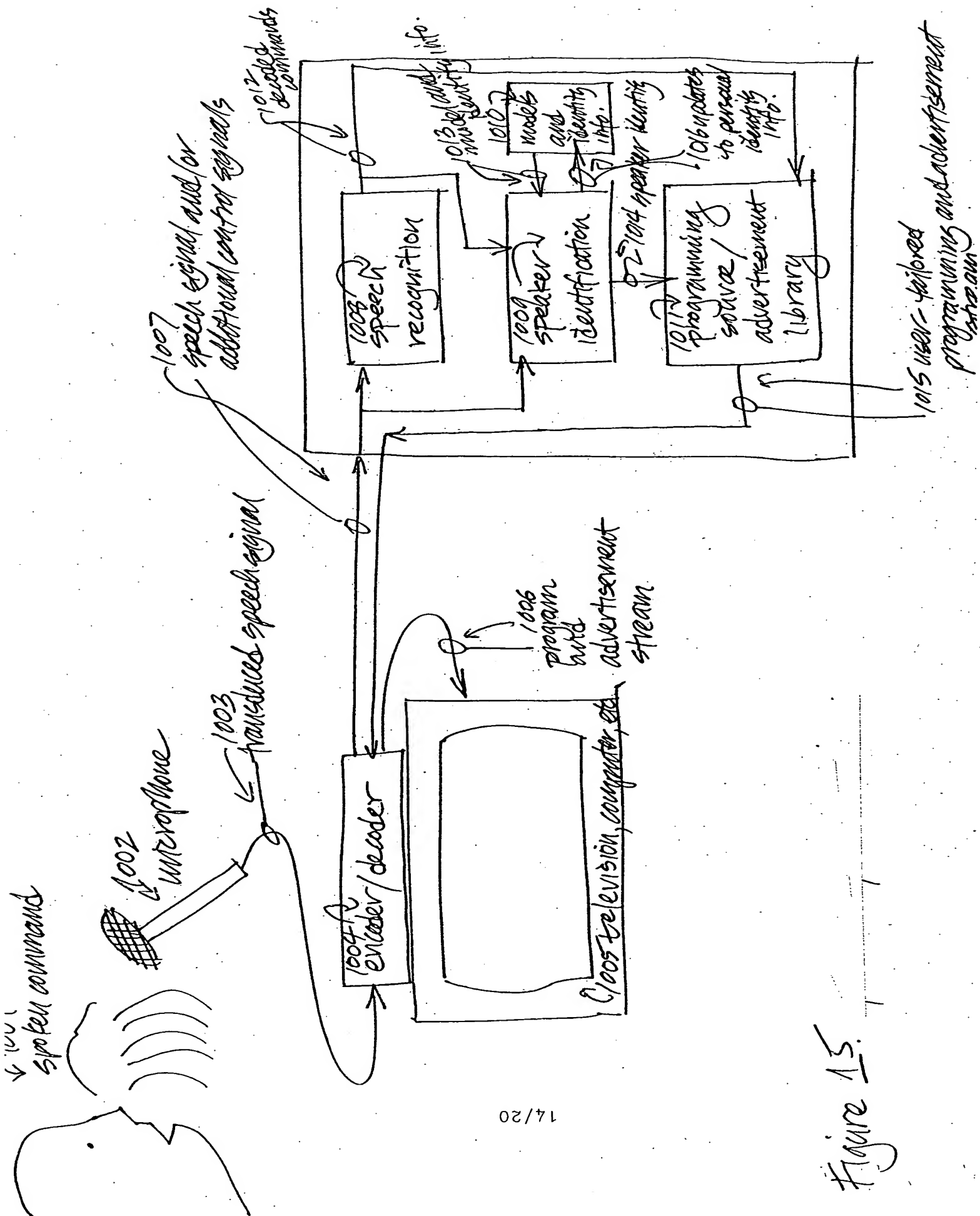
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Channel 12
Find Sports Team Bengals

Fig 13



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Figure 15.

2006 pairing of speaker id model with
personal identity information

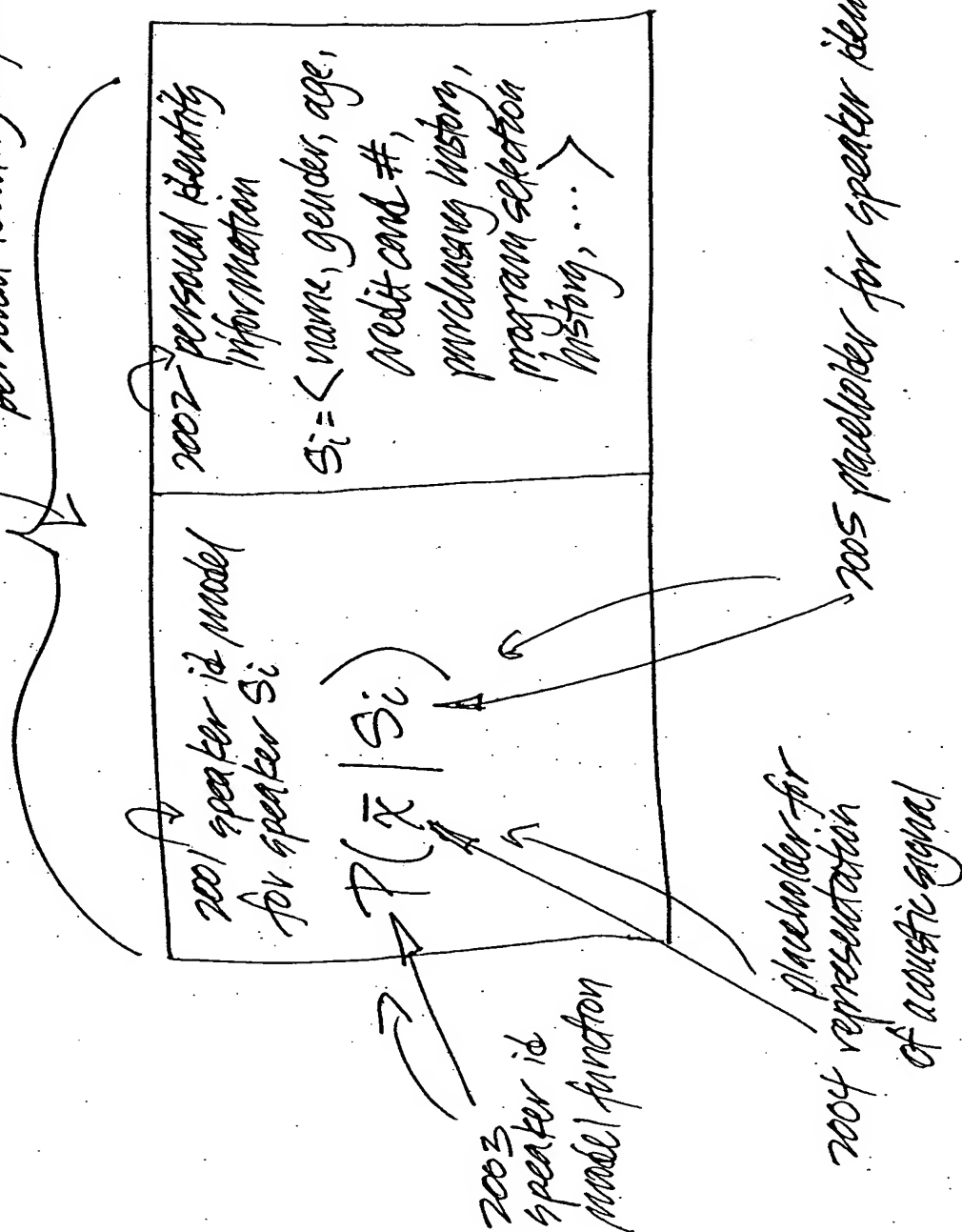


Figure 16.

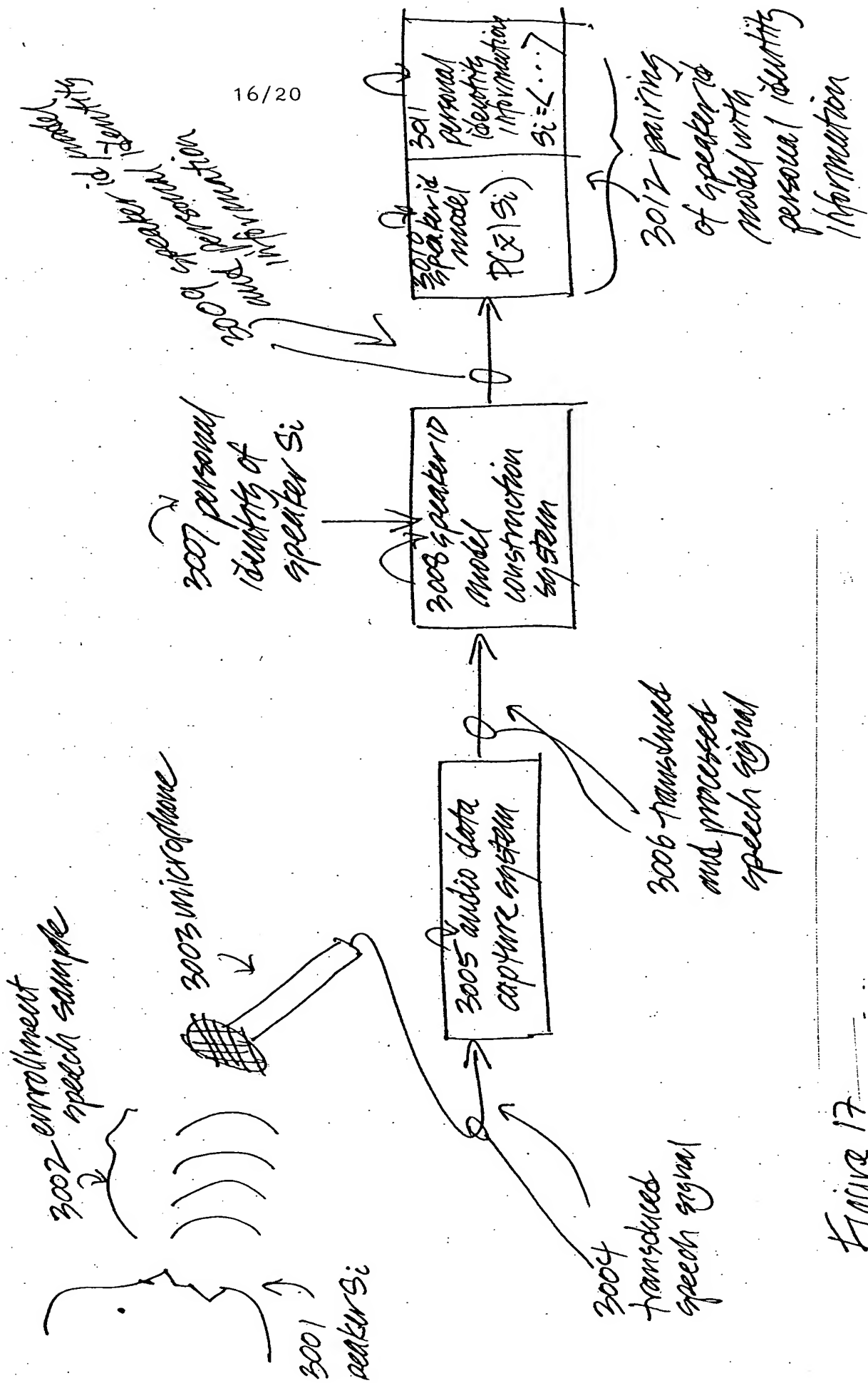


Figure 17

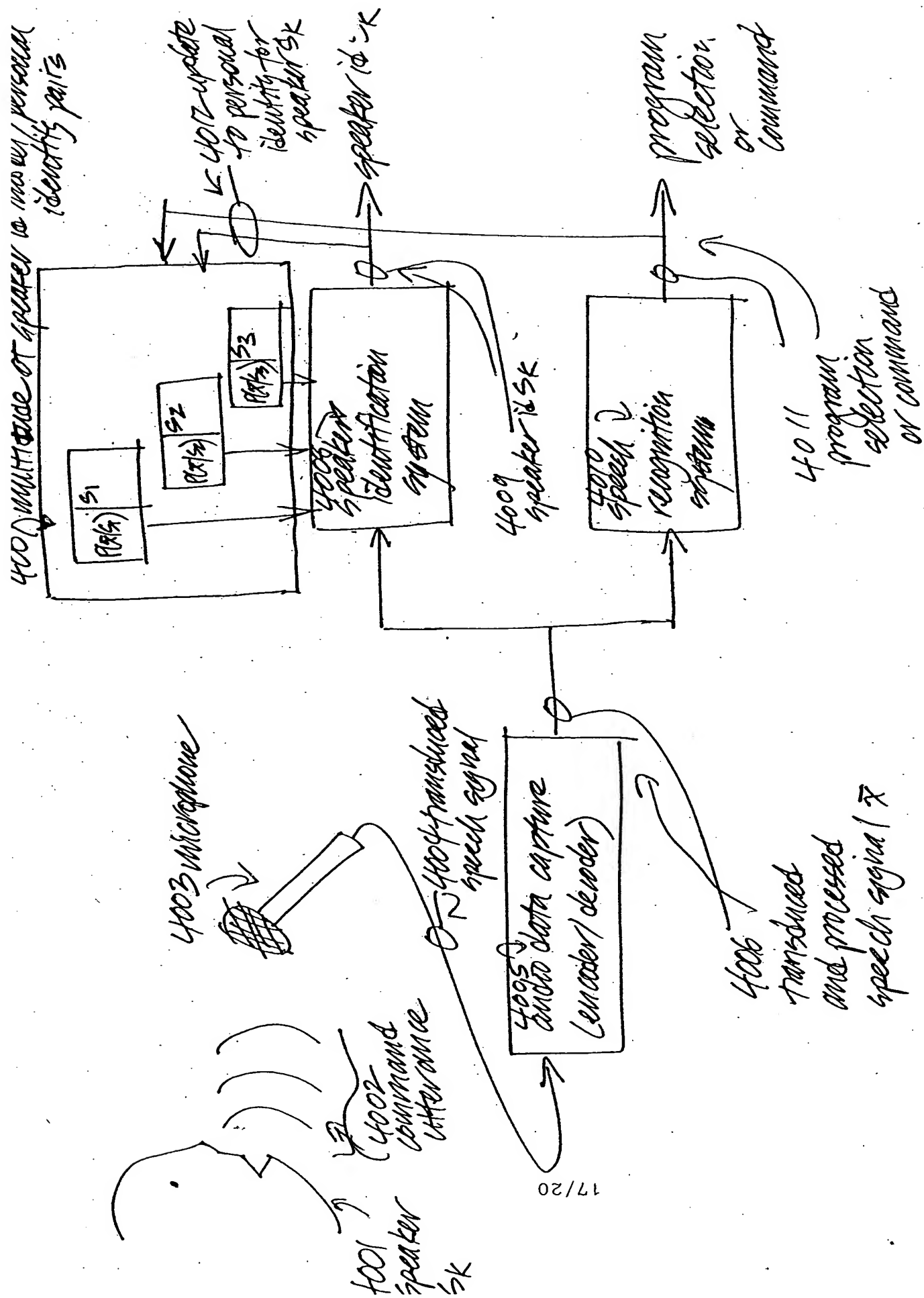


Figure 18

5006 pairing of group id model
with group identity information

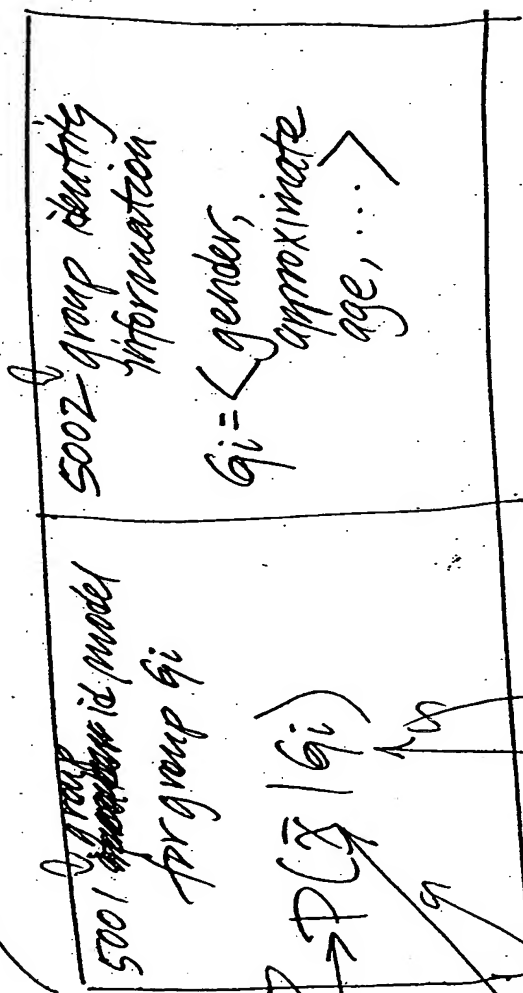


Figure 19

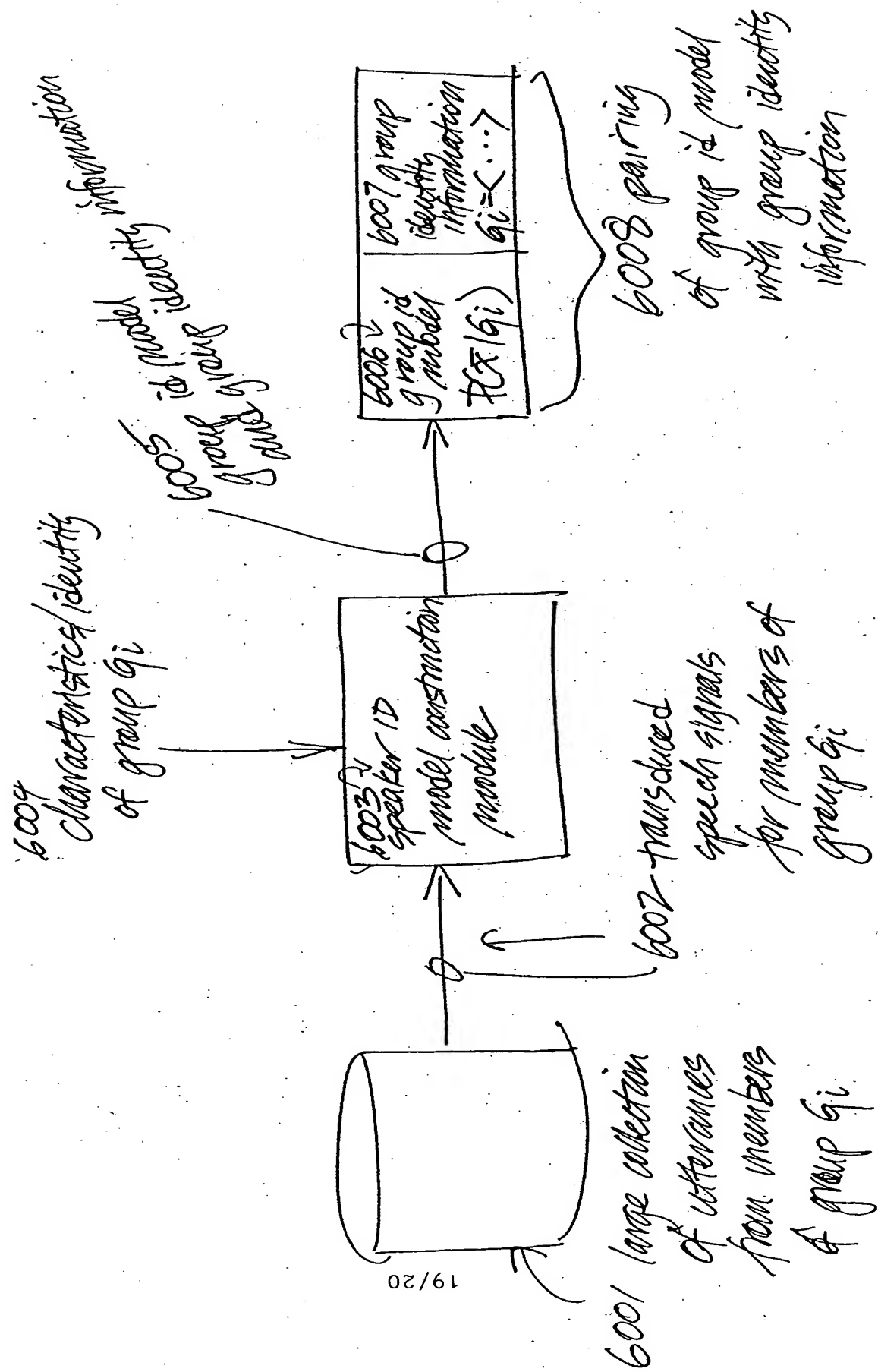


Figure 20

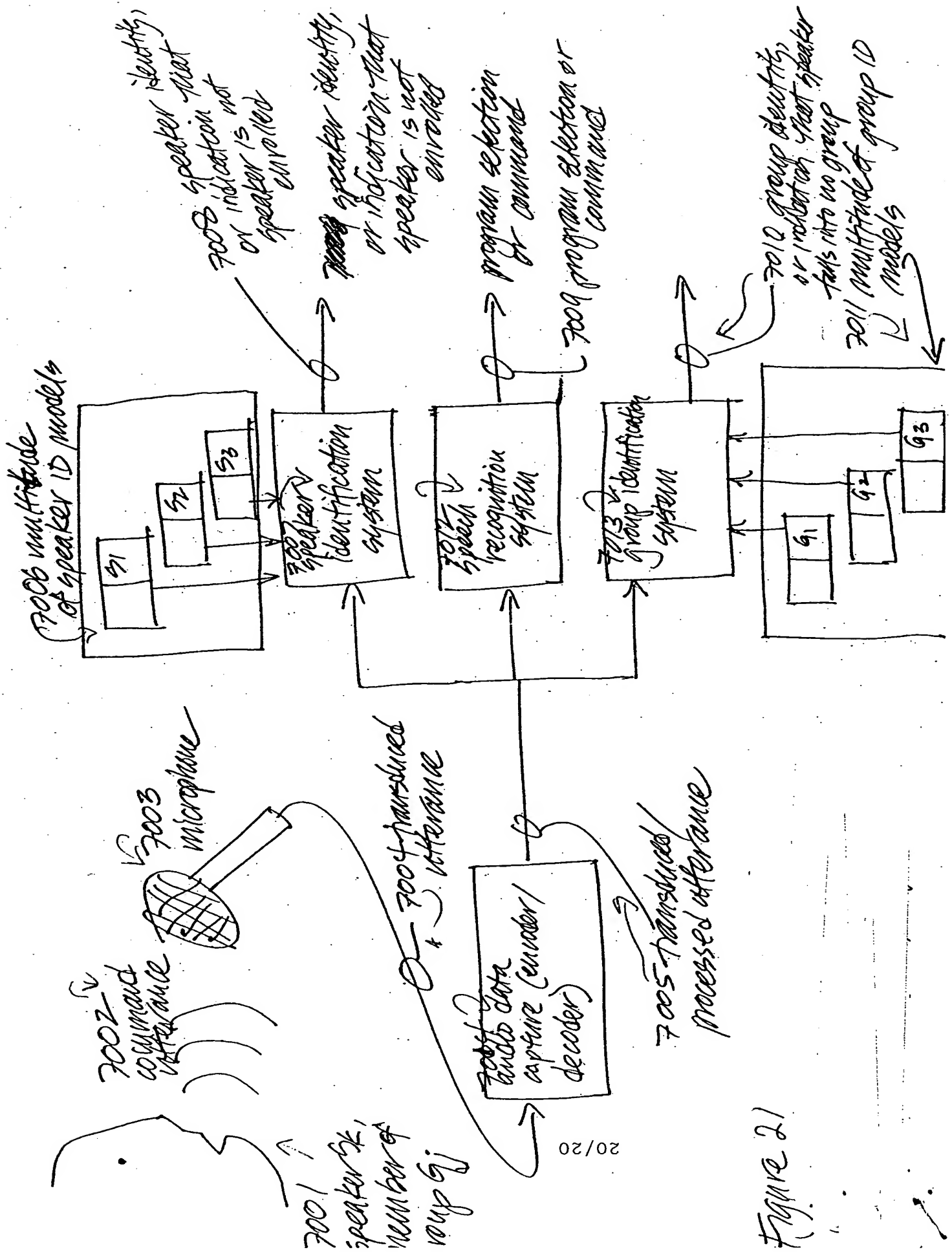


Figure 21